

LISTING OF THE CLAIMS

This listing of claims will replace all prior versions, and listings, of claims in the application:

1. (Previously Presented) A wireless mobile phone comprising:
a body casing having a plurality of surfaces;
an input keypad disposed on a first surface of said body casing to facilitate entry of alphanumeric data;
at least a first button disposed on a second surface of said body casing; and
complementary logic in support of the at least first button to facilitate entry of alphanumeric data and user programmable phrases having one or more words, in encoded representations of a variable length encoding scheme using said at least first button, the variable length encoding scheme having a plurality of codes of various code lengths, with one or more of the plurality of codes having the shortest lengths reserved for the user programmable phrases.
2. (Previously Presented) The wireless mobile phone of claim 1, wherein said mobile phone further comprises a display, and said complementary logic further echoes on said display alphanumeric data or user programmable phrases represented by encoded representations representing said alphanumeric data and encoded representations directly representing said user programmable phrases entered using said at least first button.
3. (Previously Presented) The wireless mobile phone of claim 1, wherein each of said at least first button is optically associated with a light source, and said complementary logic further cause said light source associated with said at least first button to be energized to light said first button to visually echo the encoded representations of said variable length encoding scheme of letters, numbers or punctuations entered through said input keypad.

4. (Previously Presented) The wireless mobile phone of claim 1, wherein said mobile phone further comprises a transceiver to send and receive signals, and an adapter interface to removably attach a device capable of vibrating to said mobile phone, and to vibrationally output alphanumeric data or user programmable phrases received through said transceiver, for touch comprehension, using said removably attached capable of vibrating device.

5. (Previously Presented) The wireless mobile phone of claim 4, wherein said alphanumeric data or user programmable phrases are vibrationally outputted through vibrational manifestation of encoded representations of the encoding scheme.

6-8 (Cancelled)

9. (Previously Presented) The wireless mobile phone of claim 1, wherein said complementary logic further supports user specification of said user programmable phrases having one or more words.

10. (Cancelled)

11. (Previously Presented) The wireless mobile phone of claim 1, wherein said encoded representations comprise a code representing a punctuation selected from a group of punctuations consisting of a colon, a semi-colon, a left parenthesis, a right parenthesis, and an exclamation.

12. (Previously Presented) The wireless mobile phone of claim 11, wherein said code representing the selected punctuation is one of

Selected Punctuation	Code
/ (slash)	<i>dahditdahditdah</i>
, (comma)	<i>dahdahditditdah</i>
. (period)	<i>dahdahdahditdah</i>
? (question mark)	<i>ditdahditdah</i>
: (colon)	<i>ditdahdahditdah</i>
; (semicolon)	<i>ditdahditditdah</i>
! (exclamation)	<i>ditdahditdahdit</i>
((left parenthesis)	<i>ditditdahditdit</i>
) (right parenthesis)	<i>dahdahditdahdah</i>
space	<i>ditditditdit</i>
' (single quote)	<i>dahditdahdahdah</i>
" (double quote)	<i>ditdahditdahdah</i>
- (hyphen)	<i>ditdahdahdahdit</i>
+ (plus sign)	<i>dahditditditdah</i>
= (equal sign)	<i>ditditdahdahdit</i>

13. (Previously Presented) The wireless mobile phone of claim 1, wherein said encoded representations comprise a code representing a letter selected from a group of letters consisting of

Letters	Custom Codes
E	<i>ditdit</i>
G	<i>dahdahdahdit</i>
H	<i>dahditdah</i>

I	<i>ditdahdah</i>
K	<i>ditdahditdit</i>
L	<i>dahdahdit</i>
M	<i>dahdahdahdah</i>
T	<i>dahdah</i>
W	<i>ditditdahdah</i>

14. (Original) The wireless mobile phone of claim 1, wherein said complementary logic further maps each of said entered variable length encode representations to a corresponding code of a fixed length binary representation scheme for representing alphanumeric data.

15. (Previously Presented) The wireless mobile phone of claim 1, wherein said wireless mobile phone further comprises at least an additional second button for use in conjunction with the first button to enter direct encoded representations for user programmable phrases having one or more words.

16-17 (Cancelled)

18. (Original) The wireless mobile phone of claim 1, wherein said first and second surfaces are different surfaces of the body casing.

19. (Original) The wireless mobile phone of claim 18, wherein said first surface is a front surface of the body casing, and said second surface is a second surface of the body casing.

20. (Original) The wireless mobile phone of claim 1, wherein said first and second surfaces are the same surface of the body casing.

21. (Previously Presented) A wireless mobile phone comprising:
a transceiver to send and receive signals;
an adapter interface to removably attach a device capable of vibrating to said mobile phone; and
complementary logic in support of said transceiver and said adapter interface to vibrationally output alphanumeric data and user programmable phrase having one or more words received via said transceiver through vibrational manifestation of encoded representations of the received alphanumeric data and user programmable phrases for touch comprehension, using the removably attached capable of vibrating device,
wherein the vibrationally manifested encoded representations are representations of a variable length encoding scheme, the variable length encoding scheme having a plurality of codes of various code lengths, with one or more of the plurality of codes having the shortest lengths reserved for the user programmable phrases.
22. (Previously Presented) The wireless mobile phone of claim 21, wherein said mobile phone further comprises a display; and said complementary logic further supports echoing on said display said alphanumeric data or user programmable phrases received through said transceiver.
23. (Cancelled)
24. (Cancelled)
25. (Cancelled)

26. (Cancelled)

27. (Previously Presented) The wireless mobile phone of claim 21, wherein said encoded representations comprise a code representing a punctuation selected from a group of punctuations consisting of a colon, a semi-colon, a left parenthesis, a right parenthesis, and an exclamation.

28. (Previously Presented) The wireless mobile phone of claim 27, wherein said code representing the selected punctuation is a selected one of

Selected Punctuation	Code
/ (slash)	<i>dahditdahditdah</i>
, (comma)	<i>dahdahditditdah</i>
. (period)	<i>dahdahdahditdah</i>
? (question mark)	<i>ditdahditdah</i>
: (colon)	<i>ditdahdahditdah</i>
; (semicolon)	<i>ditdahditditdah</i>
! (exclamation)	<i>ditdahditdahdit</i>
((left parenthesis)	<i>ditditdahditdit</i>
) (right parenthesis)	<i>dahdahditdahdah</i>
space	<i>ditditditdit</i>
' (single quote)	<i>dahditdahdahdah</i>
" (double quote)	<i>ditdahditdahdah</i>
- (hyphen)	<i>ditdahdahdahdit</i>
+ (plus sign)	<i>dahditditditdah</i>

= (equal sign)	<i>ditditdahdahdit</i>
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29. (Previously Presented) The wireless mobile phone of claim 21, wherein said encoded representations comprise a code representing a letter selected from a group of letters consisting of

Letters	Custom Codes
E	<i>ditdit</i>
G	<i>dahdahdahdit</i>
H	<i>dahditdah</i>
I	<i>ditdahdah</i>
K	<i>ditdahditdit</i>
L	<i>dahdahdit</i>
M	<i>dahdahdahdah</i>
T	<i>dahdah</i>
W	<i>ditditdahdah</i>

30. (Original) The wireless mobile phone of claim 21, wherein said alphanumeric data are received in fixed length binary representations of a fixed length character encoding scheme, and said complementary logic maps each of the received fixed length binary representations to a corresponding encoded representation of the variable length encoding scheme.

31. (Previously Presented) A wireless mobile phone comprising:
a body casing having a plurality of surfaces;
an input keypad disposed on a first of said surfaces having a plurality alphanumeric keys;

a light source;
at least a first button disposed on a second of said surfaces of said body casing, optically associated with the light source; and
complementary logic in support of
entry of alphanumeric data and user programmable phrases having one or more words through the input keypad,
entry of alphanumeric data and user programmable phrases through entry of encoded representations of the alphanumeric data and user programmable phrases using the at least first button, wherein the encoded representations are representations of a variable length encoding scheme, the variable length encoding scheme having a plurality of codes of various code lengths, with one or more of the plurality of codes having the shortest lengths reserved for the user programmable phrases, and
energizing said light source to light said at least first button to visually echo encoded representations of alphanumeric data and user programmable phrases entered through said input keypad.

32. (Cancelled)

33. (Cancelled)

34. (Cancelled)

35. (Previously Presented) The wireless mobile phone of claim 31, wherein said complementary logic further supports user specification of said user programmable phrases having one or more words.

36. (Previously Presented) The wireless mobile phone of claim 31, wherein said encoded representations comprise a code representing a punctuation selected from a group of punctuations consisting of a colon, a semi-colon, a left parenthesis, a right parenthesis, and an exclamation.

37. (Previously Presented) The wireless mobile phone of claim 36, wherein said code representing the selected punctuation is a selected one of

Selected Punctuation	Code
/ (slash)	<i>dahditdahditdah</i>
, (comma)	<i>dahdahditditdah</i>
. (period)	<i>dahdahdahditdah</i>
? (question mark)	<i>ditdahditdah</i>
: (colon)	<i>ditdahdahditdah</i>
; (semicolon)	<i>ditdahditditdah</i>
! (exclamation)	<i>ditdahditdahdit</i>
((left parenthesis)	<i>ditditdahditdit</i>
) (right parenthesis)	<i>dahdahditdahdah</i>
space	<i>ditditditdit</i>
' (single quote)	<i>dahditdahdahdah</i>
" (double quote)	<i>ditdahditdahdah</i>
- (hyphen)	<i>ditdahdahdahdit</i>
+ (plus sign)	<i>dahditditditdah</i>
= (equal sign)	<i>ditditdahdahdit</i>

38. (Previously Presented) The wireless mobile phone of claim 31, wherein said encoded representations comprise a code representing a letter selected from a group of letters consisting of

Letters	Custom Codes
E	<i>ditdit</i>
G	<i>dahdahdahdit</i>
H	<i>dahditdah</i>
I	<i>ditdahdah</i>
K	<i>ditdahditdit</i>
L	<i>dahdahdit</i>
M	<i>dahdahdahdah</i>
T	<i>dahdah</i>
W	<i>ditditdahdah</i>

39. (Original) The wireless mobile phone of claim 31, wherein said alphanumeric data are entered in fixed length binary representations of a fixed length character encoding scheme, and said complementary logic maps each of the entered fixed length binary representations to a corresponding encoded representation of the variable length encoding scheme.

40. (Previously Presented) The wireless mobile phone of claim 31, wherein said first and second surfaces are different surfaces of said body casing, and said light source comprises one or more light emitting diodes (LED) proximally disposed with the first button.

41-46 (Cancelled)

47. (Previously Presented) In a wireless mobile phone, a method comprising:

receiving encoded representations of a variable length encoding scheme of alphanumeric data and user programmable phrases having one or more words entered using at least a first button disposed on a top or side surface of the mobile phone, said variable length encoding scheme comprising a plurality of codes of various code lengths, with one or more of the plurality of codes having the shortest lengths reserved for the user programmable phrases, and said mobile phone also having an input keypad disposed on a front surface to facilitate entry of alphanumeric data; and

in response, electrically generating signals corresponding to fixed length digital representations of said alphanumeric data or user programmable phrases entered through entry of their variable length encoded representations of said variable length encoding scheme using said at least a first button.

48. (Previously Presented) The method of claim 47, wherein said method further comprises visually echoing on a display of said mobile phone said alphanumeric data or user programmable phrases entered through entry of their variable length encoded representations of said variable length encoding scheme using said at least a first button.

49. (Previously Presented) The method of claim 47, wherein each of said at least a first button is optically associated with a light source, and said method further comprises energizing said light source associated with said at least a first button to light said first button to visually echo the variable length encoded representations of said variable length encoding scheme of letters, numbers, punctuations, and user programmable phrases entered through said input keypad.

50. (Previously Presented) The method of claim 47, wherein said mobile phone further comprises an adapter interface to removably attach a capable of vibrating device to said mobile phone, and said method further comprises vibrationally outputting the variable length encoded representations of the alphanumeric data and user programmable phrases received through a transceiver of said mobile phone for touch comprehension, using said removably attached capable of vibrating device.

51. (Previously Presented) A method of communication comprising:
placing a call to a callee using a wireless mobile phone;
communicating verbally with the callee using the wireless mobile phone; and
at selected moments of desired increased privacy during the call, communicating non-verbally with the callee, entering alphanumeric data and user programmable phrases having one or more words to be transmitted to the callee in an encoded representation form in accordance with a variable length encoding scheme, using at least a first button disposed on a top or side surface of the wireless mobile phone, and sending the entered alphanumeric data and user programmable phrases to the callee, said variable length encoding scheme comprising a plurality of codes of various code lengths, with one or more of the plurality of codes having the shortest lengths reserved for the user programmable phrases.

52. (Previously Presented) The method of claim 51, wherein the method further comprises mapping the variable length encoded representations of the alphanumeric data and user programmable phrases into corresponding conventional fixed length digital character set representations, in accordance with the variable length encoding scheme.

53-55 (Cancelled)

56. (Previously Presented) A wireless mobile phone comprising:
- a transceiver to send and receive signals;
 - a body casing having a front surface and a side surface;
 - an input keypad disposed on said front surface of said body casing to facilitate entry of alphanumeric data and user programmable phrases having one or more words;
 - a first button disposed on said side surface of said body casing;
 - a second button disposed on said side surface of said body casing adjacent to said first button; and
- means coupled to the first and second buttons and to the transceiver to facilitate entry of alphanumeric data and user programmable phrases via corresponding code representations of a variable length coding scheme, using said first and second buttons, the variable length encoding scheme comprising a plurality of codes of various code lengths, with one or more of the plurality of codes having the shortest lengths reserved for the user programmable phrases, and transmission of said alphanumeric data and user programmable phrases using said transceiver.
57. (Previously Presented) The wireless mobile phone of claim 56, wherein said mobile phone further comprises a display, and said means further echoes on said display alphanumeric data or user programmable phrases represented by code representations entered using said first and second buttons.
58. (Previously Presented) The wireless mobile phone of claim 56, wherein said mobile phone further comprises an adapter interface to removably attach a device capable of vibrating to said mobile phone, and to vibrationally output alphanumeric data and user programmable phrases received through said transceiver for touch comprehension, using said removably attached capable of vibrating device.

59. (Previously Presented) The wireless mobile phone of claim 58, wherein said alphanumeric data and user programmable phrases are vibrationally outputted through vibrational manifestation of the code representations of the alphanumeric data and user programmable phrases.

60. (Previously Presented) A wireless mobile phone comprising:
a transceiver to send and receive signals;
an adapter interface to removably attach a device capable of vibrating to said mobile phone; and

means coupled to said transceiver and said adapter interface to vibrationally output alphanumeric data and user programmable phrase having one or more words received via said transceiver through vibrational manifestation of encoded representations of the received alphanumeric data and user programmable phrases for touch comprehension, using the removably attached capable of vibrating device,

wherein the vibrationally manifested encoded representations are representations of a variable length encoding scheme, the variable length encoding scheme having a plurality of codes of various code lengths, with one or more of the plurality of codes having the shortest lengths reserved for the user programmable phrases.

61. (Previously Presented) The wireless mobile phone of claim 60, wherein said mobile phone further comprises a display; and said means are further coupled to said display and echo on said display said alphanumeric data and user programmable phrases received through said transceiver.

62. (Previously Presented) A wireless mobile phone comprising:
a transceiver to send and receive signals;

a body casing having a top surface and a side surface;
a first button disposed on either said top surface or said side surface of said body casing;
a second button disposed on the same top or side surface of said body casing adjacent to said first button; and

means coupled to the first and second buttons and to the transceiver to facilitate entry of alphanumeric data and phrases having one or more words in code representations of a variable length coding scheme, using said first and second buttons, and transmission of said alphanumeric data using said transceiver, the variable length coding scheme having a plurality of codes of various code lengths, with one or more of the plurality of codes having the shortest lengths reserved for the user programmable phrases.

63. (Previously Presented) A wireless mobile phone comprising:

a transceiver to send and receive signals;
a body casing having a top surface and a side surface;
a first button disposed on either said top surface or said side surface of said body casing;
a second button disposed on the same top or side surface of said body casing adjacent to said first button; and

a micro-controller and associated memory, including programming instructions stored in said memory, coupled to the first and second buttons and to the transceiver to facilitate entry of alphanumeric data and user programmable phrases having one or more words in code representations of a variable length coding scheme, using said first and second buttons, and transmission of said alphanumeric data and user programmable phrases using said transceiver, the variable length coding scheme having a plurality of codes of various code lengths, with one or more of the plurality of codes having the shortest lengths reserved for the user programmable phrases.

64. (Previously Presented) In a wireless mobile phone, a method comprising:
receiving code representations of alphanumeric data and user programmable phrases having one or more words entered using a first and a second button disposed on a top or side surface of the mobile phone, said mobile phone also having an input keypad disposed on a front surface to facilitate entry of alphanumeric data or user programmable phrases, the variable length coding scheme having a plurality of codes of various code lengths, with one or more of the plurality of codes having the shortest lengths reserved for the user programmable phrases; and
in response, electrically generating signals corresponding to digital representations of said alphanumeric data or user programmable phrases entered through entry of their code representations using said first and second buttons, and transmitting said alphanumeric data or user programmable phrases by electro-magnetically transmitting said generated signals.
65. (Previously Presented) The method of claim 64, wherein said method further comprises visually echoing on a display of said mobile phone said alphanumeric data or user programmable phrases entered through entry of their code representations using said first and second buttons.
66. (Previously Presented) The method of claim 64, wherein said mobile phone further comprises an adapter interface to removably attach a capable of vibrating device to said mobile phone, and said method further comprises vibrationally outputting alphanumeric data or user programmable phrases received through a transceiver of said mobile phone for touch comprehension, using said removably attached capable of vibrating device.
- 67-69 (Cancelled)